

	<b>Hanging</b>	<b>Drowning</b>	<b>Burning</b>
<b>Types</b>	<p><u>Depending upon degree of suspension –</u></p> <ul style="list-style-type: none"> <li>Complete Hanging</li> <li>Incomplete/Partial Hanging</li> </ul> <p><u>Depending upon disposition of knot –</u></p> <ul style="list-style-type: none"> <li>Typical Hanging</li> <li>Atypical Hanging</li> </ul>	<p>Typical/ Primary / Wet –</p> <ul style="list-style-type: none"> <li>Fresh water</li> <li>Sea water</li> </ul> <p>Atypical / Dry</p> <p>Secondary / Near drowning / Post Immersion Syndrome</p> <p>Immersion Syndrome / Hydrocution / Submersion Inhibition</p> <p>Shallow water drowning</p>	<p><u>Depending upon depth of body involved -</u></p> <ul style="list-style-type: none"> <li>Degree of Damage A/c to Dupuytren, Hebra &amp; Wilson</li> </ul> <p><u>Depending upon body surface area involved –</u></p> <ul style="list-style-type: none"> <li>Rule of Nine (Rule of Wallace)</li> </ul>
<b>Causes of death</b>	<p><u>Immediate -</u></p> <ul style="list-style-type: none"> <li>Asphyxia</li> <li>Apoplexy or Cerebral Ischemia or Anoxia</li> <li>Venous congestion or Congestive suboxia</li> <li>Combination of both</li> <li>Vagal inhibition or Shock</li> <li>Fracture or Dislocation of cervical vertebrae</li> </ul> <p><u>Delayed –</u></p> <ul style="list-style-type: none"> <li>Oedma larynx &amp; Lungs</li> <li>Aspiration Pneumonia or Bronchopneumonia</li> <li>Infarction of Brain or hypoxic Encephalopathy</li> </ul>	<p>Asphyxia</p> <p>Vagal inhibition</p> <p>Apoplexy</p> <p>Syncope</p> <p>Concussion &amp; Injuries</p> <p>Exhaustion</p>	<p><u>Immediate –</u></p> <ul style="list-style-type: none"> <li>Primary/Neurogenic shock</li> <li>Secondary/Hypovolemic shock</li> <li>Asphyxia</li> <li>Vagal inhibition</li> </ul> <p><u>Delayed –</u></p> <ul style="list-style-type: none"> <li>Renal failure</li> <li>Septicemia/Septicemic shock</li> </ul> <p><u>Late –</u></p> <ul style="list-style-type: none"> <li>Anaemia</li> <li>Hypoproteinaemia</li> <li>Curling's ulcer, Marjolin's ulcer</li> <li>Pneumonitis</li> </ul> <p><u>Indirect –</u></p> <ul style="list-style-type: none"> <li>Inhalation of Asphyxiants – CO.</li> <li>Traumatic Asphyxia – House/Wall collapse</li> </ul>

<b>Post Mortem Appearance</b>	<p><b>External –</b></p> <ul style="list-style-type: none"> <li>▪ <b>LOCAL -</b></li> <li>▪ Ligation mark (Position/ Direction/ Character)</li> <li>▪ <b>GENERAL -</b></li> <li>▪ Saliva (dribbling from angle of mouth)</li> <li>▪ Le facie sympathique (same side eye &amp; pupil)</li> <li>▪ Head – inclined to the opposite side of knot</li> <li>▪ Neck – stretched &amp; elongated</li> <li>▪ Ear - hemorrhage in middle ear</li> <li>▪ Face – pale, Tongue – protruded &amp; bitten, Lips - blue</li> <li>▪ Urine, Faces &amp; Seminal fluid – may escape out</li> <li>▪ PM Staining – Gloves &amp; Stockings</li> <li>▪ Vaginal &amp; Rectal mucosa – Petechial hemorrhage</li> </ul> <p><b>Internal –</b></p> <ul style="list-style-type: none"> <li>▪ <b>LOCAL –</b></li> <li>▪ Tissue under ligation mark - dry, white, glistening</li> <li>▪ Neck Muscles – may rupture</li> <li>▪ Carotid artery – transverse tears</li> <li>▪ Spinal cord – compression or laceration</li> <li>▪ Cervical vertebrae – fracture</li> <li>▪ Hyoid bone, Cricoid or Thyroid cartilage – fracture</li> <li>▪ Larynx, Trachea &amp; Epiglottis – congested</li> <li>▪ <b>GENERAL –</b></li> <li>▪ Lungs – congested or pale, Tardieu spot.</li> <li>▪ Heart – Full of dark fluid blood</li> <li>▪ Brain &amp; Meninges - congested or pale</li> <li>▪ Abdominal organs – congested</li> </ul>	<p><b>Pathognomic (Ante-mortem) –</b></p> <ul style="list-style-type: none"> <li>▪ <b>External –</b></li> <li>▪ Froth (Fine, White)</li> <li>▪ Weeds</li> <li>▪ Mud &amp; Sand</li> <li>▪ <b>Internal –</b></li> <li>▪ Water in middle ear</li> <li>▪ Water in stomach &amp; Intestine</li> <li>▪ Diatoms in Brain &amp; Bone</li> <li>▪ Emphysema aquosum/ (Submersion in conscious state)</li> </ul> <p><b>Non-Specific –</b></p> <ul style="list-style-type: none"> <li>▪ <b>External –</b></li> <li>▪ Goose Skin</li> <li>▪ Washer woman’s hand</li> <li>▪ PM lividity (light Pink)</li> </ul> <ul style="list-style-type: none"> <li>▪ <b>Internal –</b></li> <li>▪ Paltauf’s Hemorrhage</li> <li>▪ Oedema aquosum (Submersion in unconscious state)</li> <li>▪ Heart – Getler’s Test (Chloride content)</li> </ul>	<p><b>Specific (Suggestive of AM Burning)–</b></p> <ul style="list-style-type: none"> <li>▪ Soot particles</li> <li>▪ Blood – Cherry red color (Carboxy-Hb)</li> <li>▪ Pugilistic Attitude (Boxer/Fencer/Defense)</li> <li>▪ Wound –</li> <li>▪ Healing</li> <li>▪ Infection –</li> <li>▪ Inflammation/Granular tissue formation</li> <li>▪ Vesication –</li> <li>▪ Albumin / Chloride</li> <li>▪ Line of Demarkation –</li> <li>▪ Line of Redness</li> </ul> <p><b>Non -Specific (found in PM Burning also) –</b></p> <ul style="list-style-type: none"> <li>▪ Heat Hematoma –</li> <li>▪ Extradural</li> <li>▪ Chocolate brown</li> <li>▪ Honey comb appearance/ Cooked spongy mass</li> <li>▪ Heat Rupture</li> <li>▪ Heat Fracture</li> </ul>
<b>Medico Legal Importance</b>	<ul style="list-style-type: none"> <li>▪ Suicidal</li> <li>▪ Judicial – Legal execution of death sentence</li> <li>▪ Homicidal – Lynching</li> <li>▪ Accidental</li> </ul>	<ul style="list-style-type: none"> <li>▪ Accidental</li> <li>▪ Homicidal</li> <li>▪ Suicidal</li> </ul>	<ul style="list-style-type: none"> <li>▪ Homicidal (Dowry Death – IPC Sec. 304 - B)</li> <li>▪ Accidental</li> <li>▪ Suicidal</li> </ul>